BTEC Assignment Brief

Qualification	Pearson International Level 3 Subsidiary Diploma in Land-based Studies Pearson International Level 3 Foundation Diploma in Horticulture Pearson International Level 3 Diploma in Horticulture Pearson International Level 3 Extended Diploma in Horticulture
Unit number and title	Unit 28: Routine Plant Management
Learning aims	**B:** Apply cultivation methods for plant husbandry and growth **C:** Carry out routine husbandry tasks to maintain the health and growth of plants
Assignment title	Cultivating and Caring for Plants
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	Your plant booklet was very successful and is going to prove useful for your next role at "Growmore Garden Centre". You have been transferred to the landscape and garden maintenance department. Your job within the team is to carry out cultivation, planting and care for plants at different customers gardens. You will need to become familiar with the various systems used for cultivation and planting. Your new role will expect you to perform cultivation and planting and that you understand how different systems affect healthy plant growth. You will also need to undertake plant protection and husbandry tasks and be able to review the methods you use and look for ways to improve the care the plants receive. There are **two** tasks you will need to complete.

Task 1	For **Task 1**, you need to present a portfolio of evidence showing you can cultivate and plant using a variety of systems and for different plant species.
	
	Your portfolio must show you understand:
	
	• The different methods of cultivation, for example:
	  • Single, double digging, rototilling, noninversion.
	
	• The different methods of planting, for example:
	  • Rotations
	  • Monoculture and intercropping
	  • Planting styles, e.g. formal, informal, border, cottage garden.
	You should show clearly the effect these systems can have on different species.
	Your portfolio must also show you can carry out a variety of cultivation and planting activities confidently, selecting and using appropriate tools, equipment and materials.
	
	You must give fully reasoned answers, comparing different

	systems and methods and suggesting improvements. Your portfolio could include: • Logbook, photolog or blog • Observation Records or Witness Statements of you carrying out cultivation while preparing mediums for planting • Written report.
Checklist of evidence required	Portfolio of evidence to include: • Log book or other record of own cultivation and planting activities • Record(s) of practical activities (e.g. Observation Record) • Written report reviewing cultivation and planting systems and their impact on a variety of plant species.
Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
B.D2	Evaluate the systems used in the cultivation and planting of different species of plant
B.M2	Assess different planting and cultivation systems that ensure good health in plants
B.M3	Select and use appropriate cultivation and planting methods to prepare for plant growth
B.P3	Explain the different planting systems used to promote good plant husbandry
B.P4	Select and use cultivation methods to prepare for plant growth

Task 2	For **Task 2**, you must add to your portfolio to show that you can demonstrate the correct selection and control of factors to optimise plant growth. These factors will include:
	
	• Feeding and watering requirements using a variety of irrigations systems. For example:
	  • Amount and frequency of watering
	  • Methods of watering, e.g. cans/hose; drip systems
	
	• Temperature, ventilation and plant protection systems and methods. For example:
	  • Sources of ventilation for plants grown at Growmore Garden Centre before being planted in customers gardens,
	  • Recording and monitoring of temperature/humidity for plants grown within the nursery at Growmore Garden Centre.
	  • Weed control e.g. physical and chemical
	  • Use of supports, fleeces, cloches
	You must work with a variety of plant species and demonstrate good health and safety practice including the use of appropriate Personal Protective Equipment. This might include for example:
	
	• Use of risk assessments
	• Working with harmful plants
	• Use of chemicals
	• Safe manual handling.
	
	Your portfolio must include:

	• A written account, monitoring and recording the plant health and husbandry methods applied • A review of your own progress and the methods used in carrying out plant husbandry • Fully justified recommendations to improve the standard of plant care.
Checklist of evidence required	Portfolio of evidence to include: • Log book or other record of own plant husbandry activities • Record(s) of practical activities (e.g. Observation Record) • Written record of plant health and husbandry systems used and methods applied. • Review of own progress and plant husbandry systems and methods used.

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
C.D3	Record and review the methods used for plant protection, and make recommendations for improvement to promote higher standards of care.
C.M4	Demonstrate the provision of routine plant husbandry and protection for different plant species, keeping detailed records of their health and growth.
C.P5	Demonstrate the provision of basic plant husbandry and protection which are in line with health and safety standards.
C.P6	Produce outline records on the health and growth of plants

Sources of information to support you with this Assignment	**Books** The "Expert" series is a well-known range of books by Dr DG Hessayon; publisher Expert. There are over twenty different titles including: • The Bedding Plant Expert, ISBN-13: 978-0903505451 • The Greenhouse Expert, ISBN-13: 978-0903505406 • The Flower Expert, ISBN-13: 978-0903505529 • The Pest and Weed Expert, ISBN-13: 978-0903505628 • The Vegetable and Herb Expert, ISBN-13: 978-0903505468 The Royal Horticultural Society (RHS) also produce a series of books: • Hodge, G. RHS Botany for Gardeners: The Art and Science of Gardening Explained & Explored; Mitchell Beazley; 2013; ISBN-13: 978-1845338336 • MB; RHS Latin for Gardeners: Over 3,000 Plant Names Explained and Explored; Mitchell Beazley; 2012; ISBN-13: 978-1845337315 Adams, C; Early, M; Brook, J; Bamford, K; Principles of Horticulture: Level 3; Routledge; 2014; ISBN-13: 978-0415859097